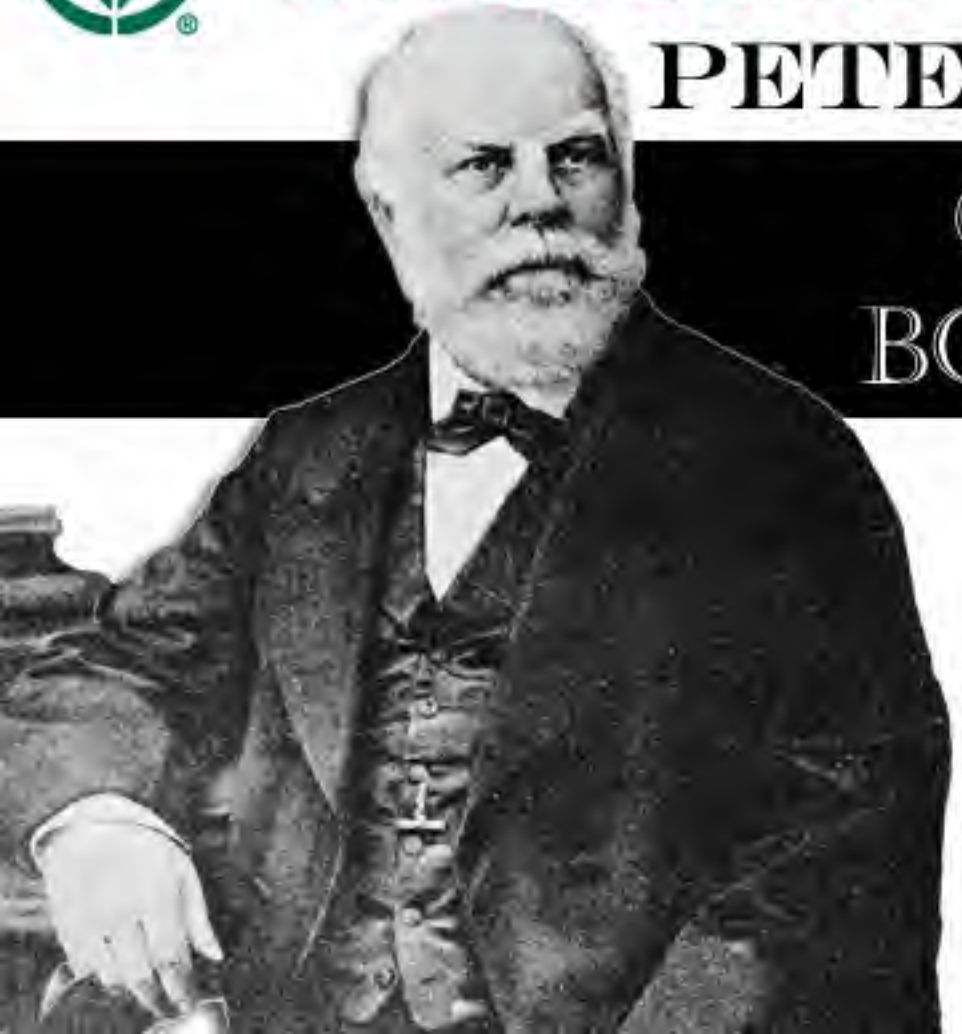
# Missouri Botanical Garden
## Peter H. Raven Library

# George Engelmann Botanical Notebooks



*Pagination Note:*
*Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

1606–1616

Picea

Synonymy

Convolvulus purpureus L. Spr. I, 597
Ipomaea " Lam
" hispida Zuccag.

America calidior.

H. Salzwedel
1825

Missouri Botanical Garden
George Engelmann Papers
12544

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Abies pectinata Lamark Encyc. 6 t. 523 = Pin. rubra Poir Punt II. 640

12545

MISSOURI BOTANICAL GARDEN
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Ehrh. Beytrage 3. p. 23.

Pinus Mariana Du Roi Harb. 2. p. 107 = P. nigra fide Lamb. II. 640

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12546

Pinus Canadensis Ehrh. Beitr. 3. p. 24 = P. alba Ait. Hort. Kew. II. 641

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12547

Abies denticulata Michx Fl. II. 206. Canada & Nov Anglia

= P. nigra fide Pursh II. 640 & Elliott.

12548

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Picea Schrenkiana

"Tian" Hort Kew 1883

J. D Hooker mss

Dec 8 1884

7 – 8 cotyledons with minute, warty obtuse teeth; rather knobs than teeth; no teeth seen on the leaves of the seedlings

×150

12549

D'OENCH & CO.,
APOTHECARY,
S. W. Corner of Second & Mulberry Streets,
ST. LOUIS, MO.

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Pinus alba ~~Ait~~ Soland: Ait Kew ed 1. III. p. 371.

Abies — Mich Fl. II 207 Mich. arb. I. p. 133 t.

Pinus Pursh II. 641 Mich. n. A. sylv. III. p. 128 t. 148 & (Ed. and. 1842) II. p. 171 t. 148 d. 2.

Lambert mon. p. 39 t. 26 Lamb. Pin I t. 36.

Elliott II p. 640

Abies — ~~Chapm.~~ 435

Pinus — Hook fl. Bor A. II. 165

Abies — Gray Man. 423

Abies — Loud. Arb. IV. 2310. f. 2224

Pinus — Endl Conif. 112.

Picea — Link Linnea XV. 519

~~A~~ — Carrière p. 238

12550

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# Picea

April 1879

branchlets and Terminal buds in winter and early spring

| | twigs | buds |
|---|---|---|
| **P. excelsa** | very pale brownish | scales lanceolate apt to be very squarrose when dry |
| P. obovata Hds. Mis | " " " | with appressed acutish scales (the lowest acutate) |
| P. orientalis Hds Mis | " " " | " " " " " " " " |
| P. nigra | " " " | " " " lower scales acutate |
| P. Engelmanni | whitish | scales thin, membranaceous at last squarrose or dry |
| P. alba | white | |
| P. pungens | white | |
| P. Sitkaensis | white | |
| P. albertiana | white | globose - scales appressed lowest ob acutate or acuminate |

12551

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Pinea Link, not Don; Abies Don; Abies sect (Apricea) Gray; Mx.; Pinus sect Pinea Endl. Pabst. – Conifers trees with single evergreen, more or less 4-sided leaves with at last separate pores prominent, persisted, (green base) flowering from the axils of the leaves of the previous year; staminate flowers as in Abies, but stamens tipped with a large nearly orbicular, denticulate crest, their cells open longitudinally; pollen as in Abies, 0.09–0.13 mm in the longest diam; cones pendulous from the ends of short or slender branchlets maturing in one season; scales and bract, enclosed membranaceous bracts persistent on the axis; seeds without (when very) imbedded in the membranous base of the wing which leaves their under side nearly free a persistent thereto for not one.

Grandest trees of regular form, slower growth than the firs, with white soft but tough close, highly useful timber. Resinous ducts 1 or 2 or none always present peripheral, below, but near the lateral edges.

A. Cones large trees, 80–150' high with ashy-colored, flat bark with large – broader leaves ~~the last~~ (in young trees 2–3 inches) 2 ranked shining grey glaucous, or later dull green, stomatic on both sides; cones with the upper bract broad, obtuse, convex-obovate, often falcate; cones cylindrical oblong, obtuse, 3–4 cm 5 inches long 1½–1¾ thick mostly apple green, scales purplish-gray; bract obovate-cuneate, mostly recurved, much shorter than the very broad transversely deltoid scale wings broad very oblique, as long as wide, colyledons 5–7 usually 6.

2 Resinous peripheral. (grading to Calif. Nuttalls)

12552

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Abietineae ÷ H.B. Mus Pulst, Vienna July 21 & 22 1869

Picea orientalis? cult Hort Hügel seedling with very slender leaves — none of them serrate!

"Picea subarctica Schur" from Transylvania has still more elongated cones & cone than any specimen rec[d] at Berlin — very odd looking, ought to be cultivated

12553

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Pinus Sitchensis Bong. veg. Sitch. p. 104

Hook Fl. Bor am II. 164

Abies ——— Lindl. Loud Hort Brit. V. 212

Picea ——— Carrière Conif. 260

Pinus ——— Endl Conif 123

12554

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Abies
Pinus Menziesii / Dougl Dougl in Linl Trans Cyclop. 1 p. 32. (London
Lamb. P. 2 . vol III. t. 89. p. 9. (Newber.
(t 19 Newberry)

Loud Arb. IV. p. 2321. t. 2232.

Abies. — Nutt Sylv. III. p. 131 t. 116.

Pinus — Hook A. Bor am II. 162

Abies — Newberry Pac R R. VI Bot p. 56 c. icon

Picea — Carr. ière Conif. 237

Pinus — Endl Conif 112

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Picea Californica Carrière Conif. 261.

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Pinus rubra Mich arb. p. 45. t. 1

Mich. sylv. III. p. 112. t. 134

D. angl. 1842 p. 137 t. 134

= Pin. resinosa Sol. fide Lamb II. 64 et.

Hook II. 161

Gray Man. 421

? Loud Arb. IV. p. 2213. f. 2098-2099.

Carrière 401

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Pinus (Abies) nobra Soland ap Ait Kew (ed 1) (non Mich)

Lamb. mon p. 43. t. 28 (non Mich Ed. II. t. 38.

~~Lamb Pin. t. 13~~

Nova Scot.

Pursh II. 640

Nouv. F.

Hook F. Bor Am II. 164.

Picea — Link. Linnea XV. 521

Abies — Loud Arb IV. 2316. f. 2228

— — Poir dict.

Pinus — Endl Conif. 113

Picea — Carrière 240

Pinus nobra Mich Arb. p. 45 t. 1
Mich Sylv.

var of P. nigra fide Mich.

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Poir

Ait. Hort Kew. ed. 1. III 165.

Pinus nigra — Lambert Monogr. p. 41 t. 27. — Lamb. Pin. ed. II t. 57

Mich Arb. I. t. 11 p. 123

Purh II. 640.

Elliott II. 640.

Abies nigra — Poir Encyc. 6 p. 520

Chapm. 434

Mich. N. Am. Sylv. p. 176. t. 147. (Ed. Americ. 1842) II. p. 168. t. 147

Pinus — Hook fl. Bor A. II. 165

Abies — Gray Man. 423

— — Loud. Arb. IV. 2312. f. 2225. 2226

Pinus — Endl Conif. 115

Pinea — Link Linnea XV. 520

— — Carrière p 241

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Syn: P. rubra Lamb is a variety, Mich Syls. ed 2 p. 169 and others

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